"IMPROVEMENTS TO BALANCE ROADS AND DRAINS AT BHUVANESHWARINAGARA AND MARUTHI LAYOUT OF DASARAHALLI VILLAGE SURROUNDING AREA IN WARD NO 06 THANISANDRA)."

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2022-04-30-38 **Date: 08/04/2022**
ıer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
is	:	Byatarayanapura Sub Division, BBMP, Bangalore.
t Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
	:	Dhananjaya M L, No:90/4, 2nd Floor,2nd Main, Seshadripuram, Bangalore - 560020
ner's Reference	:	BBMP/EE/BTP/WO/35/2021-22
of Sample	:	Sample supplied by Agency
e Condition	:	Satisfactory
f Receipt	:	04-04-22
ner ID	:	CC Road - BBMP Office Back Side Road
e Type /Size	:	150X150X150 mm
e grade/Age	:	M30 / 7 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
f test	:	08/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
CC Road - BBMP Office Back Side Road	M30	01/04/2022	08/04/2022	150.36 X 151.47 X 150.39	22775	8.332	574.6	25.2	25.6
CC Road - BBMP Office Back Side Road	M30	01/04/2022	08/04/2022	150.21 X 150.03 X 151.39	22536	8.153	600.8	26.7	
CC Road - BBMP Office Back Side Road	M30	01/04/2022	08/04/2022	149.19 X 149.83 X 151.65	22352	8.904	557.7	25.0	

sults obtained are satisfactory as per standard requirements.

lts pertain to the samples received and tested.
rmation furnished by Customer/Representative
rection in the report will make this report invalid
ort without prior written approval should not be reproduced or published in full or part.
s will be disposed after 30 days from the date of issue of test certificate

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CIVIL Pro Sig.....R KARTHIK RECHAN Date..... Authorized Signatory Quality Manager BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/04/2022

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)	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
ner	:	Byatarayanapura Sub Division, BBMP, Bangalore.
ss t Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
y	:	Dhananjaya M L, No:90/4, 2nd Floor,2nd Main, Seshadripuram, Bangalore - 560020
ner's Reference	:	BBMP/EE/BTP/WO/35/2021-22
of Sample	:	Sample supplied by Agency
e Condition	:	Satisfactory
f Receipt	:	04-04-22
ner ID	:	CC Road - Maruthi Layout Sri Priya Nilaya Road
e Type /Size	:	150X150X150 mm
e grade/Age	:	M30 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
f test	:	29/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
CC Road - Maruthi Layout Sri Priya Nilaya Road	M30	01/04/2022	29/04/2022	149.68 X 149.84 X 151.98	22429	8.443	745.5	33.2	33.1
CC Road - Maruthi Layout Sri Priya Nilaya Road	M30	01/04/2022	29/04/2022	149.68 X 150.57 X 150.04	22536	8.937	739.4	32.8	
CC Road - Maruthi Layout Sri Priya Nilaya Road	M30	01/04/2022	29/04/2022	151.32 X 151.11 X 149.93	22865	8.708	757.0	33.1	

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Quality Manager

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Date: 08/04/2022

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b ID	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
stomer	:	Byatarayanapura Sub Division, BBMP, Bangalore.
dress	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of
ject Name		Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
	:	Dhananjaya M L, No:90/4, 2nd Floor,2nd Main, Seshadripuram, Bangalore - 560020
ency	:	BBMP/EE/BTP/WO/35/2021-22
stomer's Reference	:	Sample supplied by Agency
rce of Sample	:	Satisfactory
mple Condition	:	04-04-22
te of Receipt	:	CC Road - BBMP Office Back Side Road
stomer ID	:	150X150X150 mm
mple Type /Size	:	M30 / 7 Days Compressive Strength
mple grade/Age	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
ference to BIS codes	:	08/04/2022
te of test	:	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
CC Road - BBMP Office Back Side Road	M30	01/04/2022	08/04/2022	151.43 X 149.62 X 150.32	22657	8.204	579.0	25.6	25.7
CC Road - BBMP Office Back Side Road	M30	01/04/2022	08/04/2022	150.96 X 150.60 X 150.51	22734	8.910	607.5	26.7	
CC Road - BBMP Office Back Side Road	M30	01/04/2022	08/04/2022	151.67 X 149.73 X 151.72	22710	8.689	565.3	24.9	

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Authorized Signatory
Quality Manager

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Date: 29/04/2022

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D	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
mer	:	Byatarayanapura Sub Division, BBMP, Bangalore.
ss t Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
y	:	Dhananjaya M L, No:90/4, 2nd Floor,2nd Main, Seshadripuram, Bangalore - 560020
mer's Reference	:	BBMP/EE/BTP/WO/35/2021-22
e of Sample	:	Sample supplied by Agency
le Condition	:	Satisfactory
f Receipt	:	04-04-22
mer ID	:	CC Road - Maruthi Layout Sri Priya Nilaya Road
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
f test	:	29/04/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
CC Road - Maruthi Layout Sri Priya Nilaya Road	M30	01/04/2022	29/04/2022	150.23 X 149.87 X 150.11	22514	8.397	765.2	34.0	33.1
CC Road - Maruthi Layout Sri Priya Nilaya Road	M30	01/04/2022	29/04/2022	151.02 X 149.96 X 151.53	22648	8.822	728.6	32.2	
CC Road - Maruthi Layout Sri Priya Nilaya Road	M30	01/04/2022	29/04/2022	149.91 X 149.88 X 151.05	22468	8.700	746.5	33.2	

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	:	Dhananjaya M L, No:90/4, 2nd Floor,2nd Main, Seshadripuram, Bangalore - 560020
gency	:	BBMP/EE/BTP/WO/35/2021-22
stomer's Reference	:	Sample supplied by Agency
urce of Sample	:	Satisfactory
mple Condition	:	04-04-22
te of Receipt	:	CC Road - BBMP Office Back Side Road
stomer ID	:	150X150X150 mm
mple Type /Size	:	M30 / 7 Days Compressive Strength
mple grade/Age	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
ference to BIS codes	:	08/04/2022
te of test	:	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road - BBMP Office Back Side Road	M30	01/04/2022	08/04/2022	151.42 X 151.98 X 150.81	23012	8.692	586.7	25.5	25.5
2	CC Road - BBMP Office Back Side Road	M30	01/04/2022	08/04/2022	151.46 X 150.00 X 150.80	22720	8.525	596.4	26.3	
3	CC Road - BBMP Office Back Side Road	M30	01/04/2022	08/04/2022	151.19 X 149.89 X 150.94	22662	8.139	562.0	24.8	

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Date: 29/04/2022

Lab ID	:	CP-2022-04-30-38
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor,2nd Main, Seshadripuram, Bangalore - 560020
Customer's Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-22
Customer ID	:	CC Road - Maruthi Layout Sri Priya Nilaya Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Road - Maruthi Layout Sri Priya Nilaya Road	M30	01/04/2022	29/04/2022	149.74 X 151.37 X 151.17	22667	8.594	749.8	33.1	33.0
2	CC Road - Maruthi Layout Sri Priya Nilaya Road	M30	01/04/2022	29/04/2022	150.08 X 151.05 X 150.60	22669	8.571	727.3	32.1	
3	CC Road - Maruthi Layout Sri Priya Nilaya Road	M30	01/04/2022	29/04/2022	149.12 X 150.29 X 150.22	22410	8.867	755.2	33.7	

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2022-04-30-38 **Date: 12-04-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-22
Type of Mix	:	GSB (Granular Sub Base)
Date of Test	:	09-04-22
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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(IS 2386:(Part 1) 1963 (RA2011)

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Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-04-22
Type of Mix	:	GSB (Granular Sub Base)
Date of Test	:	09-04-22
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.96	90.04	80-100
26.5	1689	2685	26.85	73.15	55-90
9.5	1296	3981	39.81	60.19	35-65
4.75	1493	5474	54.74	45.26	25-55
2.36	1769	7243	72.43	27.57	20-40
0.425	1659	8902	89.02	10.98	10-25
0.075	1098	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.34%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2022-04-30-38** **Date: 16-04-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-04-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	13-04-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2022-04-30-38 Date: 16-04-22
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Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
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Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-04-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	13-04-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	318	318	2.9	97.1	95-100
22.4	2254	2572	23.4	76.6	60-80
11.2	2173	4745	43.1	56.9	40-60
4.75	2254	6999	63.6	36.4	25-40
2.36	1645	8644	78.6	21.4	15-30
0.6	624	9268	84.3	15.7	8-22
0.075	1489	10757	97.8	2.2	0-5

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2022-04-30-38** **Date: 16-04-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-04-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	13-04-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2248	2563	23.3	76.7	60-80
11.2	2175	4738	43.1	56.9	40-60
4.75	2248	6986	63.5	36.5	25-40
2.36	1648	8634	78.5	21.5	15-30
0.6	645	9279	84.4	15.6	8-22
0.075	1496	10775	98.0	2.0	0-5

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2022-04-30-38** **Date: 16-04-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-04-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	13-04-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-04-30-38** **Date: 16-04-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-04-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	13-04-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

* The results obtained are satisfactory as per standard requirements.

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part I) 1963 (RA 2007)

Lab ID	:	CP-RW-2022-04-30-38 Date: 16-04-22
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-04-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	13-04-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.6%	
Combined Flakiness and Elongation Index for WMM	25.5%	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2022-04-30-38 Date: 20-04-22
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-22
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of Test	:	18-04-22
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	450	1050	21.00	79.00	56-80
4.75	1750	2800	56.00	44.00	38-54
2.36	400	3200	64.00	36.00	28-42
0.3	1350	4550	91.00	9.00	7-21
0.075	250	4800	96.00	4.00	2-8
PAN	200	5000	0.00	0	0

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

ID	:	CP-RW-2022-04-30-38 **Date: 21-04-22**
stomer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
dress	:	Byatarayanapura Sub Division, BBMP, Bangalore.
ject Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
ency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
tomer Reference	:	BBMP/EE/BTP/WO/35/2021-22
rce of Sample	:	Sample supplied by Agency
ple Condition	:	Satisfactory
e of Receipt	:	18-04-22
e of Mix	:	DBM (Dense Bituminous Macadam)
e of Test	:	18-04-22

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	11.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	15.0		
Strength	Aggregate Impact Value	19.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

e results obtained are satisfactory as per standard requirements.

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nformation Furnished by Customer/ Representative
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Certificate No.: TC-8548

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	CP-RW-2022-04-30-38 Date: 21-04-22
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhanunjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-22
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of Test	:	18-04-22

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2022-04-30-38 Date: 21-04-22
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-22
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of Test	:	18-04-22

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2022-04-30-38 Date: 26-04-22
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	25-04-22
Type of Mix	:	DBM (Maruthi Layout Nandhana Nilaya Road)
Date of Test	:	25-04-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	476	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.8	4.8
4	Average percentage	%	4.8	

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HYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

ID	:	CP-RW-2022-04-30-38 **Date: 23-04-22**
omer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
ress	:	Byatarayanapura Sub Division, BBMP, Bangalore.
ect Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
ncy	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
omer Reference	:	BBMP/EE/BTP/WO/35/2021-22
ce of Sample	:	Sample supplied by Agency
ple Condition	:	Satisfactory
of Receipt	:	21-04-22
of Mix	:	BC (Bituminous Concrete)
of Test	:	21-04-22

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	CP-RW-2022-04-30-38 Date: 29-04-22
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	28-04-22
Type of Mix	:	BC (5th Cross Road)
Date of Test	:	28-04-22

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	473	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.40	5.60
4	Average percentage	%	5.5	

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	CP-RW-2022-04-30-38 Date: 18-04-22
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer's Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-22
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	15-04-22

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON THERMOPLASTIC COMPOUND

Lab ID	:	CP-RW-2022-04-30-38 Date: 04-05-22
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.
Agency	:	Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020
Customer's Reference	:	BBMP/EE/BTP/WO/35/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-04-22
Sample Type	:	Thermoplastic Compound
Reference to BIS codes	:	ASTM D36/BS-3262-(Part-I)
Date of Test	:	29-04-22

Test Results

Sl.no	Name of Test	Result	Requirements as per Morth 803
1	Colour	White	White/Yellow
2	Softening Point	109°C - 110°C	102.5±9.5°C as Per ASTM D:36
3	Luminance Factor	Sartisfactory	White: Daylight Luminanceat 45-65 Percent min, as per AASHTO M:249. Yellow: Daylight lumunanace at 45-45 percent min, as per AASHTO M:249
4	Cracking Resistance	No Cracks found on application	The Material shall show no Cracks on application
5	Skid Resistance	49	Not Less than 45 as per BS:6044
6	Yellow Index (For White Thermoplastic Plant)	0.08	Not More than 0.12 as per AASHTO M:249
7	Drying Time	13	When Applied at a temperature specified by the manufacture and to the required thickness, the material shall mset to heat traffic in not more than 15 minutes
8	Binder Content % by Weight	21%	White & yellow 18 minutes as per Section 800 in Table 800-9
9	Glass Beads Content % by Weight	30	30-30

* The results obtained are satisfactory as per standard requirements.

Note:

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CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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